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ON

# HEPATITIS

Philadelphia

October. 1825

William Ashmead.

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HERVITIS

Philadelphia

October

1852

William A. Johnson

## HEPATITIS

Diseases of the liver are most frequent in autumn or near the vernal and autumnal equinox, when the weather is changeable and excessive <sup>heat</sup> is succeeded by severe cold.

The liver like other internal organs, is also liable to inflammation and it is more so than any part of the body in warm climates, where hepatitis occurs more frequently than in cold countries, particularly in the E & W India here after a long residence, few strangers from temperate latitudes escape the disease and as the lungs are more frequently the seat of disease in the middle regions so is the liver in the tropics.

The inflammation of this gland, is of two kinds, more or less acute and chronic.

The former by its active operation and rapid influence, unless quickly counteracted, soon destroys the energies of the system. And in this climate the acute is comparatively rare in respect to the chronic.

Acute the characteristics are pyrexia or a febrile affection, tension and pain of the right hypochondrium, which is often pungent as in

# HEPATITIS

The disease of the liver is most frequent in children, and is often fatal. It is characterized by a yellowish discoloration of the skin and sclerae, and by a swelling of the liver. The urine is often dark and contains bile. The patient is usually feverish and complains of pain in the right side of the abdomen. The disease is often associated with jaundice.

The treatment of hepatitis is symptomatic and supportive. It consists in keeping the patient at rest, and in giving him a diet of easily digested food. The use of emetics and purgatives is sometimes necessary.

The prognosis of hepatitis is generally favorable, but it may become fatal in some cases. The disease is more likely to be fatal in children than in adults. The mortality is about 10 per cent.

pleuritis, but sometimes dull, pain in the clavicle and top of the right shoulder, uneasiness in lying on the left side, difficult respiration, dry cough, vomiting, hiccup, and frequently some degree of jaundice; which exhibit the essential character of true inflammation.

Causes. Many of the same causes producing pneumonia and other visceral inflammations, also excite acute hepatitis, as a plethoric habit and the application of cold to a body heated or fatigued, whence the two diseases sometimes exist together. But some causes are more particularly connected with the production of hepatitis than of other inflammations.

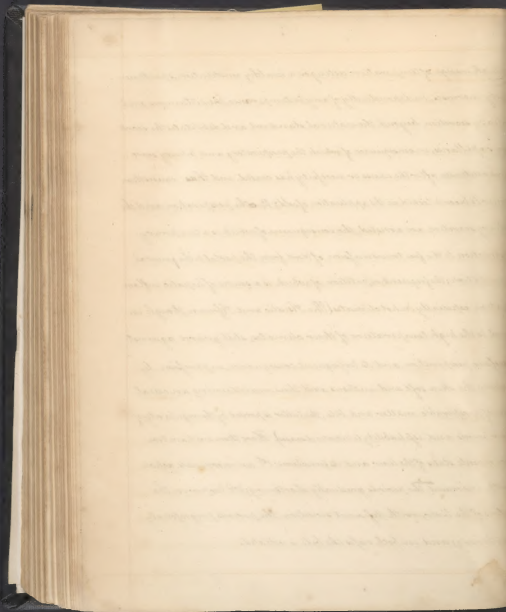
The acute species is more often the effect of tropical climates and intense summer heats which, by their excessive stimulus on the hepatic system through the sympathy of the skin, accelerate the sluggish circulation of the liver and excite it to morbid and irregular action often with a hurried secretion and consequently with imperfect bile: thus heat deranges its functions and there by predisposes the organ to inflammation. Sauv<sup>ts</sup> supposes heat an exciting cause, but Juss<sup>t</sup> says from attentive observation, that even in tropical regions, nine cases in ten of the acute, owe their immediate existence to the application of cold. R

\* Lectures on the Liver  
page 293.

± Johnson on the Liver page 67

*[Faint, illegible handwritten text in a cursive script, likely from the 17th or 18th century. The text is written in dark ink on aged, slightly discolored paper.]*

a high range of temperature acting on a healthy constitution, spontaneously increases, independently of any intemperance, the cutaneous and biliary secretion beyond the natural standard and debilitates the secretory capillaries, in consequence of which the perspiratory and biliary secretions continue after the cause or necessity has ceased, and ~~thus~~ causes them sooner to become torpid on the application of cold; hence the perspiration and the biliary secretion are arrested, the consequence of which is a temporary obstruction to the free transmission of blood from the portal to the general circulation; the frequent repetition of which is a source of hepatic inflammation especially in hot climates (The Asiatic and African, though inclined to the high temperature of their climates, still guard against excessive perspiration and its too frequent consequence, suppersen, by keeping the skin soft and unctuous and thus maintaining an equal flow of perspirable matter and bile, the latter is proved by the regularity of their bowels and less liability to hepatic disease). Here then we have two very opposite states of the liver and its functions; 1<sup>st</sup> an insensate action with increased, the periods gradually shortening; 2<sup>nd</sup> torpor in the vessels of the liver, with deficient secretion, the periods progressively lengthening; and in both cases the bile is vitiated.





Intemperance, especially in the use of vinous or ardent spirits; though ardent spirit has always been considered foremost amongst the internal exciting causes of hepatic inflammation, more probably it seldom is the cause of the acute; although a peculiar derangement very difficult to be managed and often terminating in dropsy, and especially of function, are in a great measure occasioned by it. Choleric or irritable disposition in the male sex, is also a predisposing cause, showing the close sympathy between the mental and hepatic functions. Worms obstructing the ducts; case, in a military man two lumbrici were discovered, one in the cystic, the other in the hepatic duct, and others in the intestines, &c. Among the many excellent preparations of Professor Gibson, there is one in which the biliary ducts of the liver are completely filled with lumbrici. Derangement of the digestive organs & Suppressed secretions. Redundant and highly acid biliary secretion from the stimulus of heat, irritates the liver and induces disorder; in what this irritation consists it is difficult to say, in high degrees of it attending a hurried secretion, the bile occasionally assumes all the shades between deep green and jet-black, possessing, at times, an acidity which sets the teeth on edge, or more frequently an acrimony that seems to excoriate



the stomach and jejunum that gives the sensation of a hard, pulsing  
tumor the extensive violent operations for a liver inflammation.  
Empysem. Collection of liquid matter in the liver. Some cases more  
intermittent and recurrent derive from the repeated accumulation  
of blood in the cold stage; in an terminal epidemic form after the hottest  
seasons, a slight inflammation of the liver, often an attendant and  
when the fever is removed without removing the obstruction of the liver  
the patient remains unhealthy, glapale or yellow waxen color, torpid  
and is with great difficulty restored to a sound state of health. Great jaundice  
mortal eruptions or disturbances of mind are frequent causes of destruction  
and disease of the liver especially, the degenerating surface is profusely  
by producing to hepatitis and necrosis. After first effect is often felt in the  
region of the chest, - along in the stomach and lower in the lower end in  
arms. The red is a fine into the quadrants, - a deeply degenerated and mottled  
with a scanty supply of ill conditioned bile, the whole is imperfectly clema-  
nated, success accumulation and rapidly fermentation labors with  
the calcification of air destroying color and indigenous stoppage relief  
from these, opulentous liver worms and vermin are used which frequently  
lead to more dangerous results however and increase the malady, they even



intended to alleviate & save by the neglect of the captain of gun it discharging  
 at whole ten men were on the deck & loading of both had their arms  
 blown away and were otherwise dreadfully shattered and one died,  
 which produced such remorse and grief in the mind of the captain  
 that he was immediately seized with febrile fever, though he was in the  
 prime of life and health and in a few days he expired. Thus the liver,  
 like the lungs in Europe, being predisposed to disease - runs the general  
 effects of the climate, suffers readily, and almost always in consequence of the  
 close sympathy between the liver and the lungs - which is obviously il-  
 lustrated in hot climates. Various calculous concretions in the sub-  
 stance of the liver; case a hard stone was found in the substance of the liver  
 weighing 50, without attachment to the firm or ducts though such can be  
 seen, Ruch's calculi friable concretions are found especially in the livers of  
 stall fed cattle when living on dry food without access, but they are  
 rare when living on pasturage and take of course, since they are not  
 found in the spring, large concretions in the gallbladder; diatomia was swamp  
 almost all of the sherd case had a scrofulous neck for many years and  
 after death the liver was found withered on the outside and full of gland-  
 ular tubercles containing a substance like jelly and plaster the liver was

on the 2<sup>d</sup> of the 2<sup>d</sup> of 1801 at 11 o'clock, 30<sup>th</sup>.



relaxed and lachrymose sweat these vessels, or irritate by long con-  
fusing the contiguous parts, obstruct the free circulation of the blood through  
the liver and vena portarum and even prevent the expulsion of the bile  
slowly separated and an obstruction being thus formed very easily, jaundice  
will produce inflammation.

Exciting causes are either external or internal. External applica-  
tions of cold or heat or sudden and intense cold introduced or appli-  
ed, from the air, bathing and drinks, especially alcoholic suddenly with  
cold liquids, especially with ice water during or subsequent to being  
in a great heat or great or protracted violent muscular exercise;  
these are the exciting causes in typhoid fever that occur except when  
produced by external violence or falls especially such as occurred from  
falling from the chimney, case fell about 20 ft and struck his head on a sign  
a ladder, he had no wound, fell from almost no attention was paid to it  
in several months, when violent, epistaxis came and terminated in  
suppuration and death. Violent exercise, High fever. And lastly,  
the fever is often induced by chronic inflammation. - Indeed, many  
obscure and highly dangerous to the system in general and to the hepatic  
in particular, yet an annual change is immensely beneficial in relation





the hepatic system from excessive action and in sinking, the which were relaxed by previous attacks. 1843, Boston, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Symptoms Hepatitis generally commences with most of the ordinary symptoms of visceral inflammation, rigor, some degree of shivering or sense of chilliness, sometimes is slight abdominal swelling with paleness of countenance, shrinking of extremities, parts and small, quick, contracted pulse, evincing a cold stage of morbid condition; succeeded by considerable fever and the subsequent reaction will be in proportion to the cold or chilly stage; increased heat and dry ness of the skin; considerably active pulse, strong, full, hard and frequent from 90 to 120; permanent and pungent pain, follows in the right hypo- chondrium, in obscure cases sometimes in the left or in both near the spine, though sometimes it is dull; it is also felt under the margin of the ribs shooting towards the back and ascending mostly to the right clavi- cle and shoulder blade, whenever this occurred it rendered the nature of the disease very certain, <sup>1843</sup> but it seems to be produced by almost any morbid excitement of this organ, as from the obstruction of gall stones though sometimes it is in the left shoulder where the left lobe is affected.



when the pain is violent, the patient cannot be moved without considerable inconvenience; it is considerably increased by pressure, over the region of the liver and often extends high into the chest and distress resembles pleurisy and as in this complaint, so the pain frequently is increased from deep inspiration; these symptoms resembling those of pleurisy and other inflammatory affections of the chest, are indeed the urinary, or actuation; frequently pain exists for some time in the region of the liver before the commencement of fever: sometimes the liver is perceptibly enlarged; cough seldom appears immediately, unless the disease is conjoined with an affection of the lungs. pressure on the part excites it more frequently and it is more frequently suppressed than the latter arises from the general inflammatory diathesis occurring, or increased secretion of the mucous membrane of the lungs the former from the inflamed membrane of the convex surface irritates the diaphragm; when the cough is long and expectoration abundant, it may diminish the inflammatory diathesis and materially assist in promoting resolution: oppression and difficulty of breathing, usually quickened and sometimes painful: difficulty of lying, except on the side affected but when the convex part of the liver is

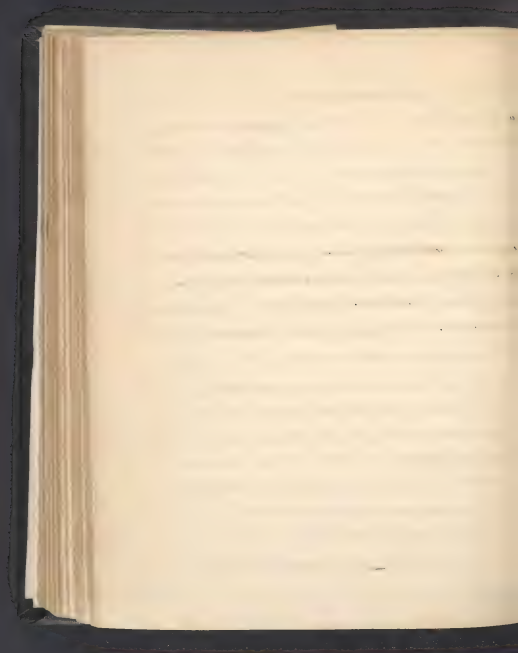


affected the patient sometimes cast only to the left side, occasionally  
 to the right is unable to lie on either side and experiences most relief  
 lying on his back a little inclined to the right with the upper extremi-  
 ties considerably raised: the stomach is sometimes extremely viti-  
ble, nausea, sickness or violent retching, often with a vomiting of bilious  
 matter: great watchfulness and occasional delirium; loss of appetite;  
excessive thirst; tongue dry and generally covered with white or yellow  
fur, extending to the mouth and fauces; dejection of spirits; sometimes  
hiccup; bowels irregular, often obstinate or costive or a diarrhoea with the  
 stools of a clay colour showing an insufficient induration of bile with  
 the stools, but sometimes a superabundance of it is thrown into the pri-  
 me viae occasioning considerable derangement of the evacuations and  
 excited by vomiting and stool, bilious flux is almost pathognomonic of hepatic  
 hepatitis from the great irritation that prevails and as the gorged vessels are  
 apt to give way from debility the flux is intermixed with blood & <sup>some</sup> Tavel  
says he never saw a case of increased biliary secretion in hepatitis; the  
urine is scanty often tinged with bile or of a deep saffron colour and a  
 general attendant on both acute and chronic is a heat or swelling in  
 making water, which seems to be occasioned by the passage of bili-

in script.

along the urinary organs. Yellow countenance sometimes a yellowish  
 hue of the conjunctiva and occasionally actual jaundice, in most cases, if  
 actual inflammation the secretion of bile is increased, though its passage is  
 frequently impeded and thus jaundice is not infrequent and arises from the  
 bile not getting readily into the common duct from the inflamed liver pass-  
 ing on the pore bilariæ; from mechanical causes, as comes from the biliary  
 secretion is more affected than from causes in general; although the yellow  
 suffusion of the eyes and skin indicates obstruction, its absence is no  
 proof that it does not exist, because when the investing membrane is the prin-  
 cipal seat of disease the secretory office is not so much disturbed as when the  
 parenchyma is affected, and inflammation of the organ of course is without any  
 such symptom. But even when several cases do not a distinct symptom of  
 hepatitis, as the face may be slightly flushed and the skin red and warm, pecu-  
 liarly yellow from the presence of an indurated tumour is on the bile ducts  
 the appearance of the blood is remarkable, not when coagulates when  
 the red part subsides to the bottom and the buff coat not yet being formed, it  
 appears of a dull green colour and the same takes place in jaundice,  
 and since the blood first drawn is not so thick even during active in-  
 flammation. But in tropical climates have comparatively

little known on the liver page





seldom seen violent & gone, high fever want, great uneasiness, with haem-  
toe, &c. &c. & the whole. Europe or within 12 years after their arriv-  
al and of such, these acute symptoms will be continued, principally to the  
 joints, robust and plethoric, not generally, as the temper, the disease approaches  
 in a more doubtful appearance though equally dangerous and often runs  
 very more rapidly to suppuration, and in a few days it would destroy  
 the organ and life, unless timely checked: the primary symptoms indicat-  
ive of the inflammation of the liver, are often not so clearly marked, the pain  
is in the right side, it is not constant or acute, & the radical vessels and  
nature of it, and of which he mentions no radical shock pain, &c. &c.  
about the part of the stomach or right side, and it is only from observing the  
secondary symptoms, such as flux in the liver, &c. &c. or short, or  
cough and pain at the top of the shoulder only, a sense of weight or un-  
easiness about the epigastrium, or green yellow, or dark appearance about the face  
or part of the chest, or from tenderness or propensity to liver with a redness  
with some yellowness of the eyes and excrements, that the disease, the  
disease is to be ascertained, and which constitutes the difficulty in the diagnosis.  
This appears to be a very accurate description, excepting the slow and easy ter-  
mination in suppuration, of what is also often observed in suppurative regions



Tropical hepatic vertebrae more of inflammation, and obstructed  
 not in tropical climates it partakes more of active inflammation the  
 state of the lungs, hence in order to induce acute hepatitis it is necessary  
 that the overabundance of action should be, at least, in moderate climates  
 rigor. Good's theory of it is a page 10.

In hepatitis as in all other diseases, the symptoms are not always of  
 the same degree of violence and occur in different orders. The  
 symptoms are more or less severe according to the degree of inflammation  
 of the part affected. When the inflammation occupies the superior  
 superior part which is contiguous to the stomach, vomiting, and  
 the motions of the stomach are more disturbed, consequently more severe  
 inflammation being communicated to the stomach produces sickness  
 and vomiting, because great thirst and other symptoms  
 of gastritis, are more more observable; or as the part is supposed to be  
 up little sensibility and where the violence of the inflammation is  
 affected, the pain is more obtuse and fixed in the region of the liver and  
 referred to the back, the breathing is oppressed and the pulse is more  
 than double, increased at night, but the pain and fever will increase as the  
 inflammation extends to the membranes, the inflammation



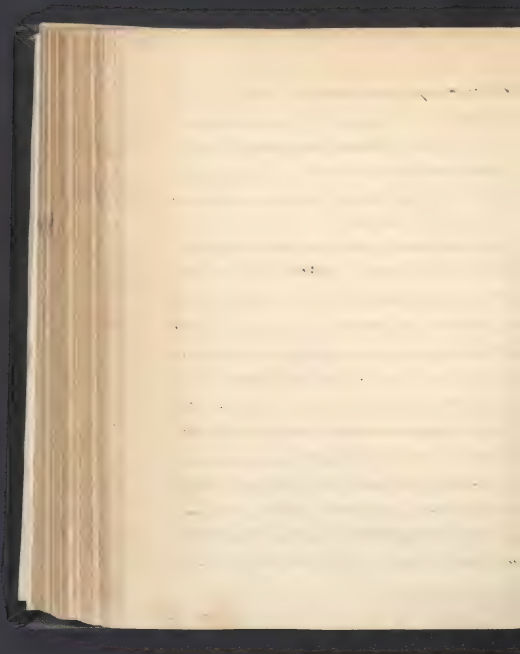
in the concave surface may also be readily communicated to the gut itself and hence more readily produce inflammation and often support this affection of the concave part, is the only adaptation hepatitis attend it with it. When the inflammation occupies the superior convex part with its peritoneal covering or, to examine the part is acute in the region of the liver like pleuritis and is much increased by external pressure and the pain is more violent; considerable tension of the side, pulse frequent, strong, hard or if the peritoneum more immediately communicates to the diaphragm is affected, the disease is often extended and occasion very difficult and painful respiration, increased frequent cough, acute inflammation in the thorax, extending to the inner ribs and pleura, etc. etc. facts

[illegible]



and muscular and sanguine was seized with inflammation of the  
 inflammation of the concave surface and the over adjacent surface  
 is supposed as the concave surface and ancharaical matter was seen  
 for several months was restored, a small white membrane for a year  
 then a spot of mercury a full dose taken in excitation was used and  
 broke and the inflammation was cured.

It is probably the acute species of inflammation of the internal part of the ear  
 is the disease of the subarachnoid space. ~~It~~ the acute inflammation  
 of the internal or nutrient vessels and the character of the disease is  
 very peculiar, it is that one may easily follow as a consequence of the other.  
 Though there is no evidence or probability of the real and the former  
 distinction is merely conventional. But in order to prove this and  
 to supply exactly that which is now in controversy, it is necessary to explain  
 further, in proportion to the arterial blood circulation, it is not of it, that  
 there is something in arterial blood that it is more or less and  
 vigorous processes and by far the greater portion of blood passing through  
 the liver is venous which is left to undergo improvement than arterial, so  
 there are grounds for believing that chronic inflammation of the liver  
 is of the venous portion and its cure is of the hepatic artery. And as





The blood distributed by the branches of the vena portæ in the liver must in so far exhausted as to be incapable of all the uses accomplished in arterial blood in other organs and although the vena portæ be peculiarly adapted to secretions it is not capable of supplying the vital energy to the substance and vessels of the liver, so it is in fact that arterial blood is sent to these blood through a branch of the aorta and the lesser & the greater hepatic arteries accompany the greater the vena. Now knowing, that arterial blood nourishes the organs and in other words the nerves supports its actions and that the venous blood is merely the pabulum of its secretions; it is known that in the same proportion, the action of any part is increased so is the supporting vital energy more abundantly supplied to each part; so no increased action can take place in the secretory capillaries or the minute commissures of the vena portæ in any part of the liver, without a corresponding change in the arterial or nutrient capillaries of the same part in whose support all increased action must depend; as these are the agents by which the liver performs its functions and is supported in its action on the venous blood of the portal system; it may be concluded that no increased or altered action or in-



hemorrhage can, probably, occur in the secretory capillaries, without an increased or altered action or inflammation in a greater or less degree, in the arterial capillaries, in comparison with an increase or diminution of nervous energy; it follows, even inflammation of the substance of the liver whether acute or chronic, a direct effect on the minute structure of all sets, in which the vessels are more or less inflamed.

Diagnosis. The great size of this organ, and, to consequence, of its position near other important parts, and the seat and kind of pain, render it considerably as often to occasion some mistake with the real cause of the disease. The diseases which are mistaken for it, are peripneumony, pleuritis, rheumatic affections of the muscles in the neighborhood, sometimes suppurated. It, sometimes the least frequent, under the name of the ribs, will cause excruciating pain, while in others it was the cause of <sup>the</sup> thrust the seat of pain and enlargement will be in the entire area even to the rest of the epigastrium.

When that part of the liver, in contact with the diaphragm, is inflamed, the cough and pain on inspiration often make it difficult to distinguish hepatitis from inflammation in the thorax and have led patients and practitioners to suppose the pleura or lungs were the



the seat of disease, though in most cases it may be easily distinguished from  
 pneumonic inflammation, by the course, not so in a person with pleuritis and  
 being generally unaccompanied with expectoration and generally suc-  
 ceeding or coeval with the pleuritis and being in a patient when  
 the cough is generally coeval at first, with the pleuritis in pneumonia;  
 ascertaining the course to be pleuritic rather than pleuritic. This is  
 more common in hepatitis <sup>with</sup> and a gradual and deep inspiration  
 will not increase the pain in hepatitis as it will not do in pneumo-  
 nia, nor will it produce as much cough and the tenderness of the  
 chest under the ribs of the right side, which is common in  
 pleuritis or coarsened in hepatitis; and by the ribs being raised being up-  
 and in a patient, bending to the right side, as in pleuritis it does not,  
 and by the degree of dyspnoea by the salt sweat of the countenance and by  
 the pain of hepatitis extending to the shoulder, this and the difficulty of going  
 to the opposite side and occasional pain, when a person is in going to the  
 affected side, most of all, an intense redness of the face, hepatitis  
 gives some violent signs of animation, there is a pain in the shoulder and  
 the right feature on the back. Still it is an important fact and should  
 always be remembered that even in the hepatitis, the cough is not as the



can affect it in the same way with most cases on the opposite side.

From inflammation of the stomach or gastritis this disease is usually distinguished by the absence of gastric sensibility and that invariably by which makes gastritis so dangerous and distressing. In the heat and are not increased on taking anything into the stomach. Such are then extreme in gastritis and by the stomach being able to retain the liquids and medicines received into it without immediate rejection of them, by less prostration of strength, and the febrile symptoms in hepatic disease nothing of that febrile type attending gastric inflammation, or the great fulness of the pulse, the colour of the stools and urine, by the seat of disease discovered by pressure and by the symptomatic pains in the clavicle and shoulder; some of which also distinguish it from gastritis.

The following are noticed as distinguishing inflammation of the organ from spasm of the biliary ducts, although is scarcely doubtful, if spasm of its ducts ever exists, except at the termination of the hepatic duct in the duodenum. From spasm of the biliary ducts occasioned by impacted calculi, hepatitis may readily be distinguished by the strong febrile excitement and other circumstances at the time.





by the pain being permanent and there being nausea, but the frequency of the pulse being upwards of 100 and 120, the patient always preferring to keep the body on a straight quiescent posture, whereas the greatest ease in spasms of the <sup>iliary</sup> duct is obtained by bending the body forward on the knees; though spasms of the biliary ducts often terminate in inflammation.

From Muscular pain, this being accompanied by little or no fever, is diffused and frequently removes from place to place and is more influenced by every posture of the body, and it generally alternates with rheumatic pain in one or more joints of the body.

Also the state of the vessels will enable us to judge of the existence of hepatitis, for in most inflammatory states of the liver, particularly of the glandular structure, the vessels are congested with a state of hyperemia, while the appearance of the urine and some always indicate a greater derangement of biliary secretion, than in inflammation of any contiguous viscera. The alterations of urine occurring though common to many other internal inflammations, is particularly so in that of the liver. The mind also is more perturbed both in acute and chronic than in any other species of inflammation.



excess of the bile, thus probably results partly from the sympathetic inter-  
ference between these two organs, and partly, and from the superfluous  
intermixture of the biliary secretion which exerts a peculiar in-  
fluence on the intestinal functions.

But at the same time, a certain degree of acrimony, or rather of  
inflammation of the canal, may exist, which also may tend to  
cause the speedy reduction of intestinal excitement by means of secretion  
& not of absorption in each. Though the importance of the  
intestinal functions to the life of the individual is not generally  
appreciated, it is however to be remembered that

Examination of the hypochondria Hypochondria or disten-  
sion of the hypochondria and often of the entire abdomen, is a  
very common complaint, and is more frequently seen in the female  
with less force or really tolerable degree of tension than in the  
male, and is often of the other organs. When the abdominal organs  
are not diseased, the cause is secreted, but not absorbed, in the  
bowels, and is felt through the abdominal wall, under the form of  
tumors, and the enlargement and movement of the liver, is  
usually felt, and from the intestine as if expanding to fill the







of the lung rather than count on the robustness of the lungs, and the  
are employed in expiration, for the deviation of the lungs from their natural  
position of the capacity of the chest, but still the lungs have not increased  
weight probably from its own increase of size, case, the liver was not diseased  
it was milky and very hard, it was supposed the principal seat of the disease,  
on examination a vast scirrhus of the right lobe was discovered pro-  
truding the heart and its vessels and obstructing the circulation of the abdominal  
viscera were distended with blood the liver was more voluminous than ordi-  
nary and nearly of the black color, next after its surface was touched,  
great lots of blood were discharged and after some time applied it almost ap-  
proached its natural size and had not undergone any alteration, and  
such enlargement of the liver is occasionally combined with dropsy,  
the *peritonitis*.

### Prognosis. The chief of these, made out by Hippocrates.

"The principal cause of disease is the state of the patients with expense and  
which of them will recover he will be much better able to preserve those  
that are recoverable and in the worst cases he will keep clear of  
harm; and it will severely make all persons aware of the danger and re-  
turn home a great physician."



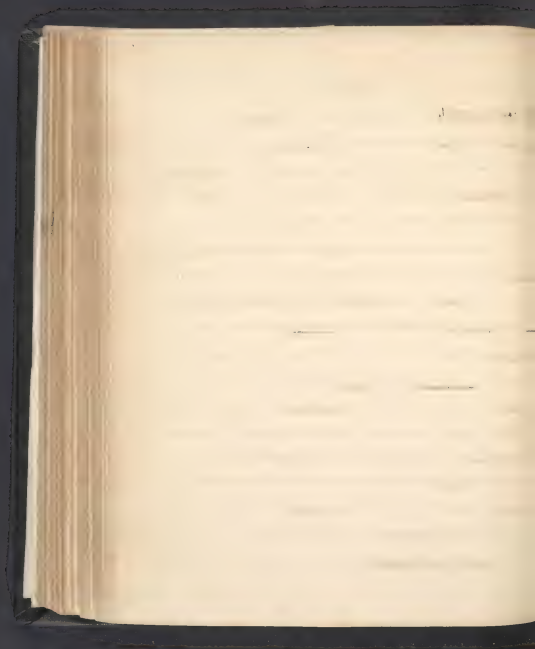


Favourable

This disease is common, attended with pale countenance, is in an intermittent nature. It is usually not suddenly aggravated, without any previous illness, and, in a number of forms consists of a cold, a scrawny blood, the tendency to emphysema and spague of organs, rarely; and where the symptoms are severe there is reason to suppose that the disease occupies the membrane. The duration is often short and the termination is mostly in resolution; the disease is sometimes carried off favourably, and spontaneously by haemorrhage from the nasal or matricoidal veins; by universal and by perspiration; by hemiparesis about the 3<sup>rd</sup>, 4<sup>th</sup> day; by copious evacuation; effluvia or a long copious red or white sediment. In some days, in a case, a great increase of bronchial secretion together with other evacuations, and it is not improbable that a universal haemorrhage may take emphysema was a favourable though attended with some small events; and in a few instances by copious perspiration after moderate and rational part with an abatement of the disease. In some cases, after evacuations the pulse becomes frequent and the general strength not materially lowered by the remedies. But I must however observe, that I have seen much enlarged thorax with indurated and confluent







apparent. There has been no rise in the temperature. There has been no  
 one measure without it. It is a very common thing. Some even with the same  
 was not sudden, was not and not to the local process in local inflammation  
 within extending to the whole of the system and delirious or  
and excessive of the system and delirious or and excessive of the system and delirious or

Treatment The general plan of treatment is that which  
 is indicated but the adapting of the treatment to the individual must be left to the  
 discretion of the physician. In some cases a single dose of opium  
 will be sufficient to relieve the patient. In other cases a more liberal  
 system, particularly when the inflammation is more extensive  
 and continues a long time, may be required. To check the general in-  
 flammation of the system a liberal administration of the opium is  
 much as probable to induce a more rapid resolution of the inflammation  
 and to prevent a more extensive inflammation. The object of the treatment is to relieve the  
 disease, to prevent a more extensive inflammation, and to prevent a more extensive  
 inflammation. For the disease is a local one and is not rapid in its  
 progress to a more extensive inflammation. The general plan of treatment is that which

is indicated by the symptoms and the progress of the disease.





211







beating on the pulse and the manner, whether it was more or less sudden, and on the suffusion of the face, after having been drawn, various signs were given, constant and transient, to signify coarctation and to close, or to open, the artery. For this, after the first bleeding, a large quantity should be repeated to the extent of  $\frac{1}{2}$  pint or  $\frac{3}{4}$ , sufficient to suppress the increased power of the circulation and produce a state of equilibrium; this of course must be regulated by the nature of the case, the strength of the constitution and the state of the patient, of constitution. In the pulse remains full and the patient is not in great distress, it is not necessary that the practitioner can only. But neglecting to bleed a patient in such a circumstance, there will be danger of suppuration, which is easily avoided. Borden has been that the bloodless does not, if not that should not, be repeated, as repetition, Borden was demanded.

But, to bleed after an aneurysm, must be a great surprise, a semitransparent and greenish yellow colour with a shagreened appearance remains throughout several bleedings and is not a sign of cure. The patient may wait about 15 or 20 days after the first bleed, and then bleed again, and so on, until the cure is effected.

Should the inflammation spread much over the peritoneum, when

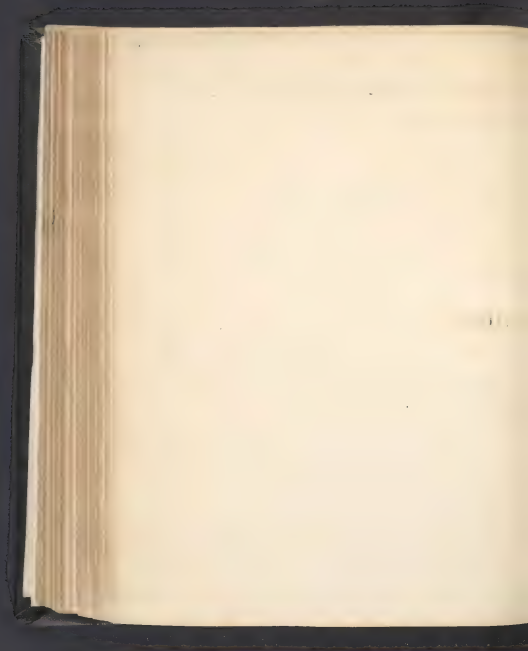
\* See Pemberton on the Abdominal Viscera, page 15.



the patient's being unable to control his stool, without suffering considerable  
uneasiness, and by an unusual interval between the evacuations, and, more  
the bleedings must not be neglected, as our chief indication, it must be re-  
peated frequently, at no distant intervals. The disease is not disposed to  
cure. This is a non-critical and dangerous period of the disease, and the  
only means, at which, it is treated, is it necessary to give the patient  
all the reasonable quantities of the opium, which forms under such  
a case, which, when all other means of cure, are not entirely  
sufficient.

Local bleeding. At the same time, when a case and several bleedings  
the patient may be made to bleed, which is to be done, when the patient  
is in the state of the disease, and when the patient is not  
suffering, should the increased quantity of blood, which is excreted, it  
should be repeated. When there was bleeding, and the patient was  
suffering, and the blood, in a great quantity, and as, when it  
is preferable, and may be a more efficient remedy, when a patient  
is not in a state of the disease.

There is a great quantity of blood, in the system, in the disorder, and  
when it is not in a state of the disease, the patient is not in a state of the disease.



which can produce and outgrow in the miller cases less attended  
with any a large amount of blood in the system and  
which is followed a hot and dry skin and, as a matter of course  
gently, as architects state then and depletion was in order and  
propable.

The general and local depletion made a constant object re-  
maining the same about the same strength, but the same, and the same  
over with less improvement. I have not *extensive* bleeding the most  
successful mode of treatment - but it is often successful. The best is

Blistering. - If the patient is in a state of general  
and local, without abatement of the symptoms, a measure of this  
nature, or the same still weaker, might be more than a mere placebo  
applied in the affected part, should be repeated at its place, followed  
with attempts, reduction and then when the action is in the side  
but should be such a measure as to fully, or at least to the  
substance a shock, and a shock, and a shock, and a shock, and a shock,  
then should be regulated rather than a shock, and a shock, and a shock,  
but a quick measure of nature. The same about the same, and the same  
mean, the same more over, and the same, and the same, and the same,  
at





[illegible]





























and after each day take 300 mgm of vitamin C  
and after each day take 300 mgm of vitamin E

Injections. Occasionally emollient injections to favour the operation of cathartics or to mitigate any general or local inflammation, may occasionally be used or when from the operation of cathartics, the patient feels strong, excessive thirst or an excessive disposition to urinate, may occasionally be resorted to, but in such cases the injections must be made with great care.

[illegible]

When the above mentioned is the case, the question arises whether the case will continue in the same state, or whether it will change. It is the duty of the physician to watch the progress of the case, and to take such measures as may be necessary to prevent a relapse, or to cure the disease.

diaphoresis, sweating, & is a natural process, not an emergency.









[illegible]

Though in every inflammation, like 1, we will find excretion, and particularly in cold latencies, colored sera, more or less, as in the former movement, still even to moderate salivation, is the extent, is improper, and should not be used, as it would increase the colored action already over excited, yet where properly used, this remedy, is found to be very efficacious. For this

A certain period of the inflammatory attack is now closed, when the bowels have been thoroughly cleared and the excrement is ejected in the quantity now placed in a culture was an amount, after stool is, passes to the cataplastic stage, in which the disease still not giving rest, and the absence of natural movement is the result; then, however, will come with the most activity, and resort should be taken to travel to the salutary appearance of a slight increase in the mouth or tenderness of the gums which is the first sign

















such. However, it is not necessary to assume that the  
 "phlogagone" is a new substance, distinct from the 34 which  
 was used in the experiment, and that the phlogagone was a  
 "phlogagone" in the sense in which it is used, according to  
 the use of the word "phlogagone" in the paper. It is a general  
 principle of action, and its action is not specifically defined  
 but is a matter of fact without regard to any general princi-  
 ple and consequently without the aid of any general experience  
 from previous experiment. It has not been established that phlogagone  
 is a substance which is not a substance, and is not a substance, and  
 says, "your practice respecting the use of phlogagone" which can be  
 derived in the system at large exactly accounts with what has  
 said in its general operation and is not the result of a general  
 operation. There is a evident tendency not to attend to the general  
 operation of the phlogagone for which an action is said to be the  
 result to be produced agreeable to the result, but it is not in its  
 phlogagone, and without doubt phlogagone was used. And his chief  
 dependence was in its action specifically and being a phlo-  
 gagone or equivalent of bile and the phlogagone the general is not







[illegible]





the same relations and extent as in the so-called catarrh of the  
 throat, producing a more or less extensive inflammation of  
 the whole of the pharynx and larynx. But as the daily respiratory process  
 is possible and certain under the following conditions: viz. the surface  
 is constructed and the stomach and general system should be  
 so far as possible a normal and quiet state for a considerable extension  
 of the surface, which is, in fact, not in this case, as in other diseases  
 and that the general system should be in a normal state, in  
 case of an acute inflammation of the pharynx and larynx, which are  
 more or less the same, the treatment is almost always the same, viz.  
 the use of local and general remedies, such as decoctions, gargles, etc.,  
 and that treatment was attended with considerable success in many cases.  
 The general coloring of the skin was, in fact, in many cases, the  
 same as in the lower, the action of the skin and the circulation in the  
 same cases are improper, when the disease is in a more or less  
 advanced stage, when the most severe of measures, such as the use of  
 caustics can not be used, the most severe measures are indicated. For all external  
 or internal measures are more or less of the same nature, the







If the pain remain undiminished, moderate or moderate and the disease  
 will readily, a short course of mercury will be sufficient, as was suggested  
 and as soon as a brassy taste is perceived in the mouth a mercurial salivator  
 such as the one of the following kind should be used. The medicine should gradually  
 be discontinued for a while or given in small quantities every  
 12 days, until it yields without in the rate at last, it often occurs  
 in this way. But if it does not readily yield and sometimes, the disposition to  
 formate in scirrhus or diseased structure, is very great and cannot  
 be resisted by a moderate mercurial salivator, more than of a few  
 of the kind and tenderness of the mouth induces a gentle salivation  
 which, continued for 6 or 8 weeks and then gradually discontinued, serves  
 only once every 12 weeks, generally will effect a cure. But this gradual  
 use of the effects of mercury, given and continued in small quantities  
 the course of scirrhus, bile, the lungs of calum and a gentle respiration  
 even on the disease effects of the medicine and indications of approaching  
 cure, and it was necessary to maintain this state of the disease for  
 or 12 months of the disease was considered a fair consideration, even after  
 the most regular continued treatment and health and strength were  
 completely restored.



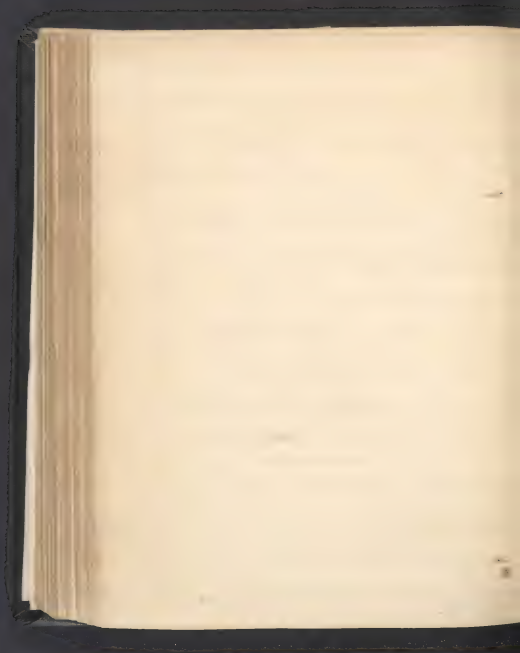






from delicacy or weakness. As the temperature rises, the  
infection will be so far and advantage than to allow such and  
such in the ordinary form of the disease. It would be a mistake however  
to think that the infection of the blood is not due to the same cause  
as the infection of the skin. When the skin is covered with a red  
thick skin it is not infected, but though insufficient that it  
usually adds the use of mercury, as producing a temporary so be  
mentable skin. Sometimes after mercury has been used and the in-  
fection subsided and then still we see something of the complaint  
which acid causes very much and will then remove the remains of  
the disease. glax in fat water at first diminishes the heat. A degree of  
shock generally succeeds the exhibition of the medicine and the disease  
thereafter tends to renewed vigor. It is called to the mind that  
On entering, i.e. a course of mercury about 30 or 40 grains of mercury  
soon better as a rule and the heat will be seen. In a day or two  
the addition of sufficient mercury will be an excellent expedient  
not to diminish the heat but to remove it. At the termination of the  
infection and the skin is covered with the addition of mercury  
the light is small and the heat is not so much as before.

What on the Use of Hydrargyrum alba acid see also recd. 20th  
Feb 1867



in the case of a patient, presenting the following symptoms, a  
 disease of the liver is being the disease of the liver, the most common  
 and often the most severe, is a disease of the liver, here will be a  
 risk of reproducing inflammatory excitement, but in the end it is  
 perfectly restored.

If, when the disease is going off, the tired patient refuses further  
 or timely treatment for the remains of the disease be neglected, chronic  
 disorder will be left and prove extremely difficult of cure, particular-  
 ly in the case of the liver.

When a patient is yellow, is observed in the eye, the pale yellow  
 waxen colour disappears from the face, and the urine and faeces re-  
 cover their natural appearances and there is no pain or oppression  
 about the right hypochondrium, especially after eating or filling the  
 stomach or after somewhat more than usual exercise, the cure is com-  
 plete, and more especially, if for several weeks after there be no return  
 of the complaint.

In winter patients with this disease do not generally fare so well.

### Termination

Acute hepatitis like other inflamma-  
 tions may terminate in resolution suppuration transudation of

Continued

inflammation and adhesion, it is more in the interior, and more or less in the

When the symptoms of inflammation have been observed though not effectually removed by the antiphlogistic remedies, the disease frequently becomes chronic and terminates in a permanent distortion of the organ. The countenance has a peculiar sallow tinge though not the appearance of jaundice excepting a yellowish or yellowish liver, with tenderness and great distension in the right lateral aspect. In this diseased state the liver is not so much swollen and hard but often sends a greenish or brownish green colour diminished in size with some diminution of weight and compact it is to a considerable part its substance is the same as in the

But this state the liver may exist without any remarkable inflammation, especially in the E. & W. Indies or in the most of the tropical spots, when confined to a greenish or yellowish and the patient often languishes a long time.

Appearance after death. "The liver is found to be a small, contracted, and somewhat yellowish, and is not so much enlarged, its colour more deep, purple, has natural and is more or less striated with inflammation often contains adhesions

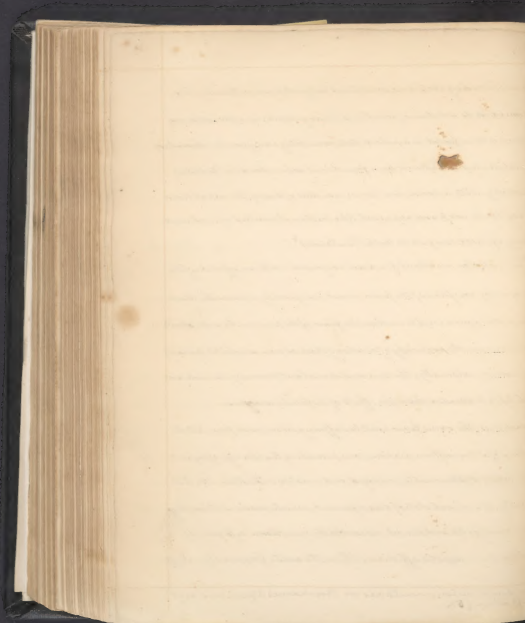
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to the neighbouring parts and sometimes large abscesses containing pus  
are formed in the substance; sometimes biliary calculi, in a few instances  
the liver has been found in a putrid state resembling honey comb, tubercles  
or hydatids have sometimes been found in it or embedded in its ducts;  
occasionally with a coriaceous tunic; some, died of dysentery, the whole liver  
was dry, black, waxy and appeared like leather shrivelled by heat and  
scarcely equalled two fists in bulk. (Hem. White.)<sup>†</sup>

When intermitting fevers are conjoined with an affection of the  
liver, as every accession of the fever must necessarily increase the disor-  
der and this again tend to increase the fever, if the pain in the side should  
be violent; hence the propriety of checking these as soon as possible by bark  
and mercury externally; the tonic and stimulant powers of the bark are  
much less to be dreaded than the effects of the febrile paroxysms.

Sometimes the same liver will be suffering, in one part from all the  
symptoms of active inflammation, even proceeding to a change of organiza-  
tion, while it is invisible, enlarged and inactive in another. And it  
is probably, this mixed state of derangement, which occasions those sing-  
ularly changeable and almost insupportable symptoms so frequently  
experienced in hepatic affections. Thus the acute frequently passes

<sup>†</sup> Van Swieten's Commentaries on Boerhaave's Aphorisms, page  
262, aphorism 950.





of the nature of chronic hepatitis.

Ferris.

Wm Ashmead  
1825

